

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09316104 A**(43) Date of publication of application: **09.12.97**

(51) Int. Cl.

C08B 37/00
A61K 31/725
// A61K 35/84

(21) Application number: **08135361**(71) Applicant: **KITANI YOSHIYASU**(22) Date of filing: **29.05.96**(72) Inventor: **KITANI YOSHIYASU**

(54) **NOVEL PHOSPHORYLATED BETA-GLUCAN
 WITH ANTI-AIDS VIRAL ACTIVITY AND DRUG
 FOR TREATING RETROVIRUS INFECTIOUS
 DISEASE**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a phosphorylated glucan that has an anti-AIDS viral activity, has less side effects, and is hardly decomposed with intracorporeal enzymes by phosphorylating the glucan extracted from *Grifola frondosa*.

SOLUTION: A glucan is extracted from the mycelium

and/or fruit body of *Grifola frondosa* of Basidiomycetes with hot water, is centrifuged, and is subjected to acid/alkali treatment, and purification treatment, such as gel filtration and column adsorption, and 5% or more of the hydroxyl groups of the glucan is phosphorylated with a phosphate to obtain a β -1,3 glucan having a molecular weight of 160,000 to 250,000, a protein content of 1% by weight or less, and a β -1,3 bonding branched chain and/or a phosphorylated β -1,3 glucan having a β -1,3 bonding branched chain.

COPYRIGHT: (C)1997,JPO